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abduction and in bending the forearm with paraesthesiae and disaesthesiae. Section of the thoracic long nerve is a lesion that happens in 20% of the operated women. It is more frequent in conservative operations as it is complicate to separate. It causes the "scapola alata" with hard movements of the arm over the head especially with extended elbow. Section of intercosto-brachial nerve causes anaesthesia, paraesthesia, pain of the axillary region, of the 2/3 of posterior-medial area of the arm. These symptoms last for some months and normally improvement is obtained without therapy. Nowadays, preservation of the inter-costo-brachial is performed by the majority of surgeons but there is no consense about the importance of this technique to reduce discomfort of the arm. The lesion of the anterior thoracic nerve leads to an ipotrophia of the pectoralis muscle. This damage can nullify a reconstruction with tissue expander. Lesion of the thoracodorsal nerve involves the adduction and the internal rotation of the arm produced by the alteration of the contraction of the latissimus dorsi muscle. Pericondritis and osteitis of the breast bone, acromial bursitis, sclerosis of the major pectoralis muscle and scars are also described.

353 INVITED

Late sequelae of breast cancer treatment, are they preventable?

J. Jassem. Medical University of Gdansk, Radiotherapy and Oncology, Gdansk, Poland

Breast cancer is the most common woman malignancy in Europe. Radiotherapy after mastectomy or breast conserving surgery decreases the risk of locoregional failure and improves overall survival.

Traditionally, postoperative radiotherapy of the breast has been delivered with wide rectangular tangential photon fields. Many patients have also been irradiated with photon beams to the regional nodal areas. These techniques, however, not always provide satisfactory dose homogeneity within the irradiated volume and may imply the risk of late cardiac and pulmonary toxicity. Indeed, in early trials of post mastectomy radiotherapy, reduced risk of death from breast cancer was offset by increased cardiovascular mortality, particularly in patients with left-sided tumors.

Recently, several techniques have been developed to improve the therapeutic ratio. Heart injury following postmastectomy radiotherapy may be decreased by the use of electron rather than photon beam irradiation of the chest wall and parasternal lymph nodes. Important improvement has come from immobilization of the patients using a support cushion and arm handle, or a hard foam cradle. Precision of radiotherapy delivery has been improved by virtue of meticulous portal verification systems. In patients managed with breast conserving surgery better dose conformation to the target volume can be achieved with the use of 3-dimensional (3D) CT planning, and particularly with intensity modulated radiotherapy (IMRT). In these patients, customized 3D compensators allow for better dose distribution than a standard wedge. Probably the most effective protection of critical organs outside of target volume may be achieved by the use of proton irradiation, yet this technique is relatively expensive and not commonly available. Most recently, breathing-adaptation techniques have been shown to reduce cardio-pulmonary radiation doses. These innovative methods turn the radiation beam on only during a pre-specified phase of the respiratory cycle, thus modifying organ movement and position in the field.

In conclusion, modern techniques of postoperative breast irradiation allow better protection of critical organs, without jeopardizing tumor control. However, in some patients some damage of heart or lung cannot be completely avoided. Future studies weighing individual risk of locoregional failure versus benefits of irradiation are therefore warranted.

354 INVITED

Quality of life - the psycho-social aspects

A. Fernandez-Marcos. Asociación Española Contra el Cáncer, Madrid, Spain

Overall, studies comparing disease-free breast cancer survivors and healthy women show no major differences in their quality of life. Poorer outcomes in long-term quality of life in breast cancer survivors are clearly related to comorbidity. Fatigue, arm problems and difficulties in sexual functioning are key elements explaining most of the problems found in the different dimensions of quality of life studied.

Although data can be controversial depending on the study reviewed and the variables assessed, common findings from a broad review on long-term quality of life in disease-free breast cancer survivors reveals several factors that may predict the long-term outcomes after completion of treatment. Those factors are: Age at diagnosis — women younger than 45 years at diagnosis show worse outcomes in the social dimension while women diagnosed at an older age (>65 years) report more problems in the physical domain; Disease stage at diagnosis — patients with advanced disease report worse long-term quality of life; Having received systemic adjuvant treatment — side effects of this type of therapy correlate with a negative impact on sexual functioning which persists over time; and, Having undergone axillary dissection which is related to an increased risk of arm problems.

Some recent studies on the psychological aspects of long-term quality of life in breast cancer survivors report higher rates of Post-traumatic Stress Disorder and emotional distress in breast cancer survivors compared to controls (healthy women).

As the number of disease-free years has extended for breast cancer patients, more attention should be paid to prevent long-term sequelae. In the decision-making process on the best procedure or treatment regimen for a given patient, long-term sequelae of each treatment and the life stage of the patient at diagnosis should be taken into account as variables that may affect long-term quality of life.

Breast cancer patients should be informed about possible long-term sideeffects of treatments, ie) fatigue/lymphoedema, in order to allow them to choose the best possible option and in order to facilitate the adjustment to illness and treatments, not just thinking on the short term, but also, in the years to come.

A careful planning of treatment and follow-ups should include the monitoring of acute and delayed (long-term) side-effects, and the establishment of a community-based early referral protocol for breast cancer survivors, in order to prevent, detect early, and treat long-term sequelae.

More research is needed to find out and prove new treatment procedures that minimise late side effects, ie) lymphoedema, taking into account that breast cancer survival rates are improving and long-term quality of life is becoming a major issue for breast cancer patients.

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16:00-17:30

SYMPOSIUM

The use of complementary medicine (CAM) in breast cancer

355 INVITED

CAM: what is it, which breast cancer patients use it and why?

G.A. Bendelow. University of Sussex, Department of Sociology, Brighton, UK

This presentation will begin by describing the enormous range and diversity of therapies under the umbrella of CAM (complementary and alternative medicines) which have particular relevance for women with breast cancer. Factors such as the philosophical aims behind different therapies, as well as the practical and therapeutic interventions will be elaborated in order to develop typologies and identify differences, but also similarities between biomedicine and other orientations such as Ayurvedic or Chinese healing systems.

Central to this process is the need to understand the perceived limits of biomedicine, and why women choose to either supplement or even to reject conventional medical interventions. Data from qualitiative empirical research studies will be used to illustrate these choices.

The available statistical evidence of women using these therapies will be examined in the UK, and as far as possible, in the rest of Europe, but problems and limitations of collecting data of this nature will also be highlighted.

356 INVITED

The menopause: does CAM provide an answer?

S. Cecchini. Centro per lo Studio e la Prevenzione Oncologia, Istituto Scientifico della Regione ToscanaUO di diagnostica medica per Immagini, Firenze, Italy

A holistic medical approach, which is so important in CAM, means that the subject of the therapy is considered as a whole, not as a puzzle of symptoms or parts. Therefore, talking of menopause and CAM, we have to stress that the gold standard of each evaluation of efficacy of the therapies is not the menopausal syndrome, but the quality of life (QoI), as evaluated by the patient herself. In fact, as regards the menopausal syndrome, we do not have consistent scientific reports of the benefits of CAM; and, besides that, we are not sure of the safety of some of the commonly proposed therapies, such as phytoestrogens.

In the experience of CSPO, we evaluated the QoI of 60 patients who asked an alternative approach. We chose the SF-36 questionnaire, which was administered at the first visit and after two months. The CAM intervention consisted basically in Bach Flowers remedies, and occasionally, by the teaching of relaxing techniques. Each of the 8 domains of the questionnaire(physical activity, role limitations due to physical and emotional status, physical pain, perception of general health status, vitality,